

OCEAN GALES AND STORMS, AUGUST 1938

Vessel	Voyage		Position at time of lowest barometer		Gale began August—	Time of lowest barometer August—	Gale ended August—	Lowest barometer	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Direction and highest force of wind	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
Cefalu, Hond. S. S.	Cristobal	Puerto Cabezas	11 36 N.	82 00 W.	3	7p, 3	4	29.86	NE	NE, 5	NE	NE, 6	
Susan B. Luckenbach, Am. S. S.	do	New York	15 50 N.	75 57 W.	6	7a, 6	7	29.94	E, 3	E, 3	NE, 9	NE, 9	
West Isleta, Am. S. S.	Trinidad	do	17 36 N.	63 06 W.	7	8a, 7	8	29.92	ENE	NE, 5	E	E, 12	NE-E-NE.
New York, U. S. Navy	Antwerp	Norfolk	36 42 N.	71 18 W.	8	7a, 9	9	30.02		W, 8	W, 8	W, 8	
Santa Rita, Am. M. S.	New York	Cristobal	21 16 N.	74 15 W.	9	2p, 9	9	29.80	NE	SSE, 6	SSE	E, 8	NE-SSE.
Falcon, Am. S. S.	Cristobal	Baltimore	22 12 N.	74 24 W.	8	4p, 9	10	29.81	NE	E, 9	E	F, 9	NE-E.
Tela, Hond. S. S.	Puerto Barrios	Charleston	23 18 N.	83 21 W.	10	4p, 10	10	29.59	E	ENE, 5	E	E, 6	ENE-E.
Lysefjord, Nor. S. S.	Santiago	Kingston	18 16 N.	76 03 W.	11	4a, 12	12	29.99	E	ESE, 6	ESE	FSE, 7	
West Harshaw, Am. S. S.	Gibraltar	Jucaro, Cuba	21 11 N.	82 54 W.	12	9a, 12	12	29.89	E	E, 8	SE	SSE, 8	NE-SSE.
McDougal, U. S. Navy	Pensacola	Cristobal	22 12 N.	85 12 W.	12	10p, 12	13	29.94	E	E, 9	SE	E, 9	E-SSE.
Darien, Pan. S. S.	Cortez	Mobile	20 20 N.	86 37 W.	12	1a, 13	13	29.79	S	SSE, 6	SSE	SSE, 7	S-SSE.
St. Mary, Br. S. S.	Baltimore	Alvaro Obregon	23 30 N.	86 00 W.	13	5a, 13	13	29.94	SE	E, 6	ESE	SSE, 8	E-SSE.
Teresa Odero, Ital. M. S.	Baytown, Tex.	Gibraltar	27 43 N.	90 46 W.	14	4a, 14	14	30.03	ESE	ESE, 8	SE	ESE, 10	E-SSE.
John D. Archbold, Am. S. S.	New York	Corpus Christi	26 42 N.	91 36 W.	14	4a, 14	14	29.78	ESE	SE, 8	S	S, 11	ESE-SSE.
J. A. Moffett, Jr., Am. M. S.	Corpus Christi	New York	26 38 N.	92 07 W.	14	5a, 14	14	29.63	SSW	Calm	S	SSW, 8	E-Calm-SSW.
W. C. Fairbanks, Am. S. S.	Smiths Bluff, Tex.	Gulfport, N. Y.	28 20 N.	91 40 W.	14	3p, 14	14	29.81	SE	S, 9	S	S, 9	SE-S.
Scanmail, Am. S. S.	Copenhagen	New York	57 12 N.	25 30 W.	15	7p, 15	15	29.35	SW	WSW, 7	WNW	WNW, 8	WSW-WNW.
Maja, Du. M. S.	Curacao	Gibraltar	20 28 N.	55 13 W.	18	3p, 18	19	29.85	NE	ENE, 6	ESE	E, 8	NE-ESE.
De Grasse, Fr. S. S.	Southampton	New York	49 59 N.	22 21 W.	22	10a, 22	23	29.69	W	SSW, 7	W	W, 8	S-W.
Annie Johnson, Swed. M. S.	Cristobal	London	14 00 N.	73 47 W.	23	5a, 23	23	29.70	ESE	ESE, 4	ENE	SE, 7	NE-SE.
Cristobal, Am. S. S.	do	Port au Prince	15 46 N.	75 50 W.	23	7a, 23	23	29.72	ENE	ENE, 5	ESE	ESE, 7	ENE-ESE.
Sunbeam, Am. S. S.	Montreal	Port Arthur	39 35 N.	68 00 W.	24	Noon, 24	24	29.55	SW	SW, 7	NNW	NW, 8	SW-NNW.
Toloa, Am. S. S.	Havana	Cristobal	19 16 N.	80 31 W.	24	4p, 24	25	29.77	ENE	ESE, 7	SE	ESE, 7	ENE-SE.
Agwistar, Am. S. S.	Progreso	New York	21 23 N.	89 39 W.	25	6a, 26	26	28.92	N	Calm	SE	S, 12	N-Calm-S.
Mexico, Am. S. S.	Vera Cruz	Havana	22 00 N.	89 54 W.	26	9a, 26	26	29.25	N	ENE, 10	SE	NE, 12	NE-ESE.
St. Mary, Br. S. S.	New Orleans	Frontera	21 18 N.	91 36 W.	27	6p, 28	29	29.80	ESE	NE, 7	E	NE, 7	ESE-NE-E.
Agwidale, Am. S. S.	Progreso	Tampico	22 08 N.	94 00 W.	28	6p, 28	29	29.78	ESE	ESE, 6	E	ESE, 7	None.
NORTH PACIFIC OCEAN													
Mobile City, Am. S. S.	Honolulu	Balboa	16 54 N.	114 42 W.	1	4a, 2	2	29.68	NNW	WSW, 6	SW	SW, 7	NNW-SSW.
Do	do	do	14 54 N.	106 18 W.	4	5a, 4	4	29.82	NE	NE, 6	SE	NE, 9	
Hopemount, Br. M. S.	Taraban	Fusan	30 00 N.	125 34 E.	9	2a, 9	9	28.74	WNW	WNW, 8	W	W, 8	NW-SW.
Empress of Canada, Br. S. S.	Shanghai	Hong Kong	30 56 N.	122 58 E.	9	2p, 9	9	28.78	N	NE, 6	SSW	NNW, 11	NNW-NE-S.
Silvermaple, Br. M. S.	Manila	Portland, Ore.	32 45 N.	157 00 E.	9	4p, 9	10	29.65	ENE	ESE, 8	S	ESE, 8	ENE-SE.
Bronxville, Nor. M. S.	Los Angeles	Yokohama	47 10 N.	180 00	19	4a, 21	21	29.84	SE	WSW, 8	NW	WSW, 8	SE-SW-NW.
Atago Maru, Jap. M. S.	Yokohama	Honolulu	31 36 N.	175 12 E.	20	Noon, 20	21	29.79	E	NE, 8	ESE	NE, 8	NE-ESE.
Northland, U. S. C. G.	Bering Sea	Norton Sound	66 12 N.	169 54 W.	21	1a, 21	22	29.22		ESE, 5	SSW	S, 8	ESE-SSW.
Nozima Maru, Jap. M. S.	Yokohama	Los Angeles	46 18 N.	175 00 W.	29	Mdt., 29	30	29.54	W	SSW, 4	W	W, 8	

† Position approximate.
‡ Barometer uncorrected.

NORTH PACIFIC OCEAN, AUGUST 1938

By WILLIS E. HURD

Atmospheric pressure.—Most of the eastern half of the North Pacific Ocean north of the Tropics was under the influence of anticyclonic conditions during the greater part of August. Very few lows entered this part of the ocean in middle latitudes, and those that crossed in higher latitudes had little intensity. The Aleutian low, weakly developed, lay over the Bering Sea. In the northeastern waters and along the adjacent coast pressures were higher than the normal of the month. The greatest departure was at Kodiak, where the average pressure, 30.10 inches, was 0.24 inch above. In tropical waters practically normal conditions prevailed.

Extratropical cyclones and gales.—A few extratropical disturbances of mild to moderate intensity occurred along the western part of the steamship routes, but the only one west of the 170th meridian of east longitude reported to have caused a high wind was that of the 9th, in which the British motorship *Silvermaple* experienced a force 8 gale, near 33° N., 157° E. A gale of like force near 32° N., 175° E., was met by the Japanese motorship *Atago Maru* on the 20th, in connection with a disturbance central far to the northward.

In higher latitudes a few lows entered into or developed over the Aleutian region, where they were for the most part central in the Bering Sea. None of these disturbances penetrated the Gulf of Alaska. In connection with

these mild cyclones, ships experienced fresh local gales (force 8) on the 21st and 29th south of the central Aleutians, and on the 21st and 22d west of the Alaska Peninsula.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean, August 1938, at selected stations

Station	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Inches	Inch	Inches		Inches	
Point Barrow	29.52	-0.07	30.08	24	29.44	31
Dutch Harbor	29.98	+0.12	30.36	19	29.38	15
St. Paul	29.85	+0.07	30.26	23, 24	29.34	15
Kodiak	30.10	+0.24	30.34	20	29.72	16
Juneau	30.08	+0.06	30.32	21	29.80	1
Tatoosh Island	30.10	+0.10	30.29	2	29.77	17
San Francisco	29.95	+0.03	30.08	10	29.73	30
Mazatlan	29.88	+0.02	29.98	5	29.74	29
Honolulu	29.98	-0.03	30.11	14	29.77	19
Midway Island	30.07	-0.01	30.24	12	29.94	27, 28
Guam	29.78	-0.04	29.89	15	29.53	25
Manila	29.76	+0.02	29.83	3, 4, 17	29.65	22
Hong Kong	29.66	.00	29.75	16	29.56	9

NOTE.—Data based on 1 daily observation only, except those for Juneau, Tatoosh Island, San Francisco, and Honolulu, which are based on 2 observations. Departures are computed from best available normals related to time of observation.

Disturbances of the Far East.—Pending receipt of the usual monthly report from the Weather Bureau at Manila on the depressions and typhoons of August in the Far East, there are only scattered comments to make regarding the tropical storms that occurred in these waters.